

220/0590  
0219

# 8



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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/041,615

DATE: 02/04/2003 f.6

TIME: 13:52:26

Input Set : A:\cura\_533\_us\_list.txt

Output Set: N:\CRF4\02042003\J041615.raw

2 <110> APPLICANT: Casman, Stacie J  
3 Edinger, Shlomit R  
4 Ellerman, Karen  
5 Smithson, Glennnda  
6 Kekuda, Ramesh  
7 Padigaru, Muralidhara  
9 <120> TITLE OF INVENTION: Novel GPCR-Like Proteins and Nucleic Acids Encoding Same  
11 <130> FILE REFERENCE: 21402-233-061  
13 <140> CURRENT APPLICATION NUMBER: 10/041,615  
C--> 14 <141> CURRENT FILING DATE: 2003-01-29  
16 <150> PRIOR APPLICATION NUMBER: 60/259,552  
17 <151> PRIOR FILING DATE: 2001-01-03  
19 <150> PRIOR APPLICATION NUMBER: 60/260,544  
20 <151> PRIOR FILING DATE: 2001-01-09  
22 <150> PRIOR APPLICATION NUMBER: 60/277,405  
23 <151> PRIOR FILING DATE: 2001-03-20  
25 <160> NUMBER OF SEQ ID NOS: 174  
27 <170> SOFTWARE: CuraSeqList version 0.1  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 947  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Homo sapiens  
34 <220> FEATURE:  
35 <221> NAME/KEY: CDS  
36 <222> LOCATION: (17)..(931)  
38 <400> SEQUENCE: 1  
39 tgaaacgaat aactct atg gtg act gaa ttc att ttt ctg ggt ctc tct gat 52  
40 Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp  
41 1 5 10  
43 tct cag gaa ctc cag acc ttc cta ttt atg ttg ttt ttt gta ttc tat 100  
44 Ser Gln Glu Leu Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr  
45 15 20 25  
47 gga gga atc gtg ttt gga aac ctt ctt att gtc ata aca gtg gta tct 148  
48 Gly Gly Ile Val Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser  
49 30 35 40  
51 gac tcc cac ctt cac tct ccc atg tac ttc ctg cta gcc aac ctc tca 196  
52 Asp Ser His Leu His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser  
53 45 50 55 60  
55 ctc att gat ctg tct ctg tct tca gtc aca gcc ccc aag atg att act 244  
56 Leu Ile Asp Leu Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr  
57 65 70 75  
59 gac ttt ttc agc cag cgc aaa gtc atc tct ttc aag ggc tgc ctt gtt 292  
60 Asp Phe Phe Ser Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val

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61          80          85          90
63 cag ata ttt ctc ctt cac ttc ttt ggt ggg agt gag atg gtg atc ctc 340
64 Gln Ile Phe Leu Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu
65          95          100          105
67 ata gcc atg ggc ttt gac aga tat ata gca ata tgc aag ccc cta cac 388
68 Ile Ala Met Gly Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His
69          110          115          120
71 tac act aca att atg tgt ggc aac gca tgt gtc ggc att atg gct gtc 436
72 Tyr Thr Thr Ile Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val
73          125          130          135          140
75 aca tgg gga att ggc ttt ctc cat tcg gtg agc cag ttg gcg ttt gcc 484
76 Thr Trp Gly Ile Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala
77          145          150          155
79 gtg cac tta ctc ttc tgt ggt ccc aat gag gtc gat agt ttt tat tgt 532
80 Val His Leu Leu Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys
81          160          165          170
83 gac ctt cct agg gta atc aaa ctt gcc tgt aca gat acc tac agg cta 580
84 Asp Leu Pro Arg Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu
85          175          180          185
87 gat att atg gtc att gct aac agt ggt gtg ctc act gtg tgt tct ttt 628
88 Asp Ile Met Val Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe
89          190          195          200
91 gtt ctt cta atc atc tca tac act atc atc cta atg acc atc cag cat 676
92 Val Leu Leu Ile Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His
93          205          210          215          220
95 cgc cct tta gat aag tcg tcc aaa gct ctg tcc act ttg act gct cac 724
96 Arg Pro Leu Asp Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His
97          225          230          235
99 att aca gta gtt ctt ttg ttc ttt gga cca tgt gtc ttt att tat gcc 772
100 Ile Thr Val Val Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala
101          240          245          250
103 tgg cca ttc ccc atc aag tca tta gat aaa ttc ctt gct gta ttt tat 820
104 Trp Pro Phe Pro Ile Lys Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr
105          255          260          265
107 tct gtg atc acc cct ctc ttg aac cca att ata tac aca ctg agg aac 868
108 Ser Val Ile Thr Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn
109          270          275          280
111 aaa gac atg aag acg gca ata aga cag ctg aga aaa tgg gat gca cat 916
112 Lys Asp Met Lys Thr Ala Ile Arg Gln Leu Arg Lys Trp Asp Ala His
113          285          290          295          300
115 tct agt gta aag ttt tagatcttat ataact 947
116 Ser Ser Val Lys Phe
117          305
119 <210> SEQ ID NO: 2
120 <211> LENGTH: 305
121 <212> TYPE: PRT
122 <213> ORGANISM: Homo sapiens
124 <400> SEQUENCE: 2
125 Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Glu Leu

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```

126      1              5              10              15
128 Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val
129              20              25              30
131 Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu
132              35              40              45
134 His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu
135              50              55              60
137 Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser
138      65              70              75              80
140 Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu
141              85              90              95
143 Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly
144              100             105             110
146 Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile
147              115             120             125
149 Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Thr Trp Gly Ile
150              130             135             140
152 Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Leu
153 145              150             155             160
155 Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg
156              165             170             175
158 Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val
159              180             185             190
161 Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile
162              195             200             205
164 Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His Arg Pro Leu Asp
165      210             215             220
167 Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His Ile Thr Val Val
168 225              230             235             240
170 Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala Trp Pro Phe Pro
171              245             250             255
173 Ile Lys Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Ile Thr
174              260             265             270
176 Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys
177              275             280             285
179 Thr Ala Ile Arg Gln Leu Arg Lys Trp Asp Ala His Ser Ser Val Lys
180      290             295             300
182 Phe
183 305
185 <210> SEQ ID NO: 3
186 <211> LENGTH: 948
187 <212> TYPE: DNA
188 <213> ORGANISM: Homo sapiens
190 <220> FEATURE:
191 <221> NAME/KEY: CDS
192 <222> LOCATION: (4)..(945)
194 <400> SEQUENCE: 3
195 taa atg aga cct aat aac agc att aca gaa ttt gtc ctc ctg gga ttc      48
196      Met Arg Pro Asn Asn Ser Ile Thr Glu Phe Val Leu Leu Gly Phe

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Input Set : A:\cura\_533\_us\_list.txt

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197	1	5	10	15	
199	tct cag gat cct ggt atg caa aaa gaa tta ttt gtc atg ttt tta ttc	96			
200	Ser Gln Asp Pro Gly Met Gln Lys Glu Leu Phe Val Met Phe Leu Phe				
201		20	25	30	
203	aca tac gtt gtg act gtg ttg ggg aac cag ctc att gtg gtg act atc	144			
204	Thr Tyr Val Val Thr Val Leu Gly Asn Gln Leu Ile Val Val Thr Ile				
205		35	40	45	
207	att gcc agc cct tcc ttg ggc tcc cca atg tac ttc ttc ctt gcc tgc	192			
208	Ile Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys				
209		50	55	60	
211	ctg tca ttt ata gat gct gca tat ttc act gtc att tct ccc aaa ttg	240			
212	Leu Ser Phe Ile Asp Ala Ala Tyr Phe Thr Val Ile Ser Pro Lys Leu				
213		65	70	75	
215	att gtg gac tta ctc tgt gat aaa aag act att tcc ttc caa acg ttc	288			
216	Ile Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Gln Thr Phe				
217	80	85	90	95	
219	atg ggc caa cta ttt ata gac cac ttc ttt ggt ggt gca gag gcc ttc	336			
220	Met Gly Gln Leu Phe Ile Asp His Phe Phe Gly Gly Ala Glu Ala Phe				
221		100	105	110	
223	ctt ctg gtg gtg atg gcc tat gat cgc tat gtt gcc atc tgt aag aca	384			
224	Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Thr				
225		115	120	125	
227	ttg cac tat ttg acc atc atg act cga cag gtt tgt atc ctt gca ttg	432			
228	Leu His Tyr Leu Thr Ile Met Thr Arg Gln Val Cys Ile Leu Ala Leu				
229		130	135	140	
231	ctg gtg gct gcg aca ggc ggt ttt gtg cat tct gtg ttt caa att gtt	480			
232	Leu Val Ala Ala Thr Gly Gly Phe Val His Ser Val Phe Gln Ile Val				
233		145	150	155	
235	gtt gtg tac agt ctc cct ttc tgt ggc gcc aat gtc att gat cat ttc	528			
236	Val Val Tyr Ser Leu Pro Phe Cys Gly Ala Asn Val Ile Asp His Phe				
237	160	165	170	175	
239	agt tgt gac atg tat cca tta ttg gaa ctg gca tgt act gac acc tac	576			
240	Ser Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr				
241		180	185	190	
243	ttt ata ggc ctc act gtt gtt ttc agt ggt gga gca ctc tgt atg gtc	624			
244	Phe Ile Gly Leu Thr Val Val Phe Ser Gly Gly Ala Leu Cys Met Val				
245		195	200	205	
247	atc ttc acc ctt cta ata att tcc tat agg gtc atc cta aac tcc ctt	672			
248	Ile Phe Thr Leu Leu Ile Ile Ser Tyr Arg Val Ile Leu Asn Ser Leu				
249		210	215	220	
251	aaa act tac act cag gaa ggg agg cat aaa gcc ctg tct acc tgc agc	720			
252	Lys Thr Tyr Thr Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ser				
253		225	230	235	
255	tcc cac atc act gtg att gtt ctc ttt tta ttc cct gta ttt tca tat	768			
256	Ser His Ile Thr Val Ile Val Leu Phe Leu Phe Pro Val Phe Ser Tyr				
257	240	245	250	255	
259	gtg aga cct gtt tca aac ttt tct att gac aca ttc atg act gtc ttt	816			
260	Val Arg Pro Val Ser Asn Phe Ser Ile Asp Thr Phe Met Thr Val Phe				
261		260	265	270	

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Output Set: N:\CRF4\02042003\J041615.raw

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263 tat aca gtt atc aca ccc aag ttg aat cct tta ata tac act ttc aga      864
264 Tyr Thr Val Ile Thr Pro Lys Leu Asn Pro Leu Ile Tyr Thr Phe Arg
265          275          280          285
267 aat tca gag atg aga aat gtt ata gaa aaa ctc ttg gtg aaa aag gta      912
268 Asn Ser Glu Met Arg Asn Val Ile Glu Lys Leu Leu Val Lys Lys Val
269          290          295          300
271 act ata ttt aga ata aca ggg tcc atc ctc atg tag                      948
272 Thr Ile Phe Arg Ile Thr Gly Ser Ile Leu Met
273          305          310
275 <210> SEQ ID NO: 4
276 <211> LENGTH: 314
277 <212> TYPE: PRT
278 <213> ORGANISM: Homo sapiens
280 <400> SEQUENCE: 4
281 Met Arg Pro Asn Asn Ser Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
282   1          5          10          15
284 Gln Asp Pro Gly Met Gln Lys Glu Leu Phe Val Met Phe Leu Phe Thr
285          20          25          30
287 Tyr Val Val Thr Val Leu Gly Asn Gln Leu Ile Val Val Thr Ile Ile
288          35          40          45
290 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu
291   50          55          60
293 Ser Phe Ile Asp Ala Ala Tyr Phe Thr Val Ile Ser Pro Lys Leu Ile
294   65          70          75          80
296 Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Gln Thr Phe Met
297          85          90          95
299 Gly Gln Leu Phe Ile Asp His Phe Phe Gly Gly Ala Glu Ala Phe Leu
300          100          105          110
302 Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Thr Leu
303          115          120          125
305 His Tyr Leu Thr Ile Met Thr Arg Gln Val Cys Ile Leu Ala Leu Leu
306          130          135          140
308 Val Ala Ala Thr Gly Gly Phe Val His Ser Val Phe Gln Ile Val Val
309 145          150          155          160
311 Val Tyr Ser Leu Pro Phe Cys Gly Ala Asn Val Ile Asp His Phe Ser
312          165          170          175
314 Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr Phe
315          180          185          190
317 Ile Gly Leu Thr Val Val Phe Ser Gly Gly Ala Leu Cys Met Val Ile
318          195          200          205
320 Phe Thr Leu Leu Ile Ile Ser Tyr Arg Val Ile Leu Asn Ser Leu Lys
321          210          215          220
323 Thr Tyr Thr Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser
324 225          230          235          240
326 His Ile Thr Val Ile Val Leu Phe Leu Phe Pro Val Phe Ser Tyr Val
327          245          250          255
329 Arg Pro Val Ser Asn Phe Ser Ile Asp Thr Phe Met Thr Val Phe Tyr
330          260          265          270
332 Thr Val Ile Thr Pro Lys Leu Asn Pro Leu Ile Tyr Thr Phe Arg Asn

```

RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:51; Xaa Pos. 276

Seq#:98; Xaa Pos. 286

**VERIFICATION SUMMARY**

DATE: 02/04/2003

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Input Set : A:\cura\_533\_us\_list.txt

Output Set: N:\CRF4\02042003\J041615.raw

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:4011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:272

L:7241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:272